Notebook, N-01-01-01.1

Transferred from other book —

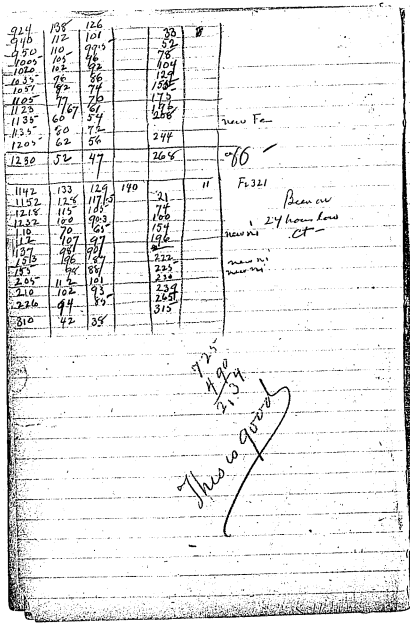
231 —

229 Ni big plate

T—	mo	aloud	open			
947	80	140	1647	38		1st pcg
947	72	127	132			
943	70	124	127	92		
1010	67	122	125	125		
1025	67	120	125	149		
1035	67	115	124	151		The Ni in the one that gave out —
1047	64	115·5	124	149		
11—	59	106·3	115	177	x	
1130	35	62	85	193		

229 Big plate
Lost in 3 days heavy
convexity 6/16 of its diff

Thus is probably only from outside —



924	138	126			33	B
948	112	101			58	
950	110	99.5			76	
1005	103	96			104	
1020	102	92			124	
1032	96	86			158	
1037	92	74			173	
1105	77	70			173	
1123	67	61			178	
1135	60	54			208	
1135	60	74				
1205	62	56			248	
1230	52	47			268	
1142	133	129	190		21	B
1152	128	117.5			74	
1218	115	103			106	
1232	100	90.3			154	
110	70	63			194	
1112	107	97				
1137	98	90				
1213	96	87			222	
183	94	84			233	
225	112	101			234	
210	102	93			234	
236	94	85			268	
810	42	38			315	

11 Fe321

Brown

Screen 24 hour Lens Ct

Screen mesh

Screen mesh

7.25
4.94
3.13

This is good

232 grind empty filled 4.9 7.25 50/200

Lang 4pd

M_2O_3 pennmagnate K process

(note thunk Freddy has got them mixed in this is Hopple process & 233 is Pennmagnate)

M_2O_3 grad 7

Moisten 50% ROH screw press in nickel box is pressed in frame

507	76	136	142		6	1st pas	
527	167	120	126	24	6		
560	125	110	122	47	12	2nd pas	
542	109	96		58			
6	103	92		84			
617	97	85		113		6/1 -	
632	77	66		134			
920	138	124	134			2nd pas	
932	114	103		25			
952	104	94		61			
1005	102	92		84			
1015	98	88		100			
1030	90	8213		124			
1042	82	73		141			
1102	66	60		166			

all night 5 pings out

825	147	133	143		10
841	130	118		37	
900	105	96		74	
920	73	66		103	

5 min
30 sec
2 1/2

24th

233 Empty filled 5+3 8.05 5P/100P

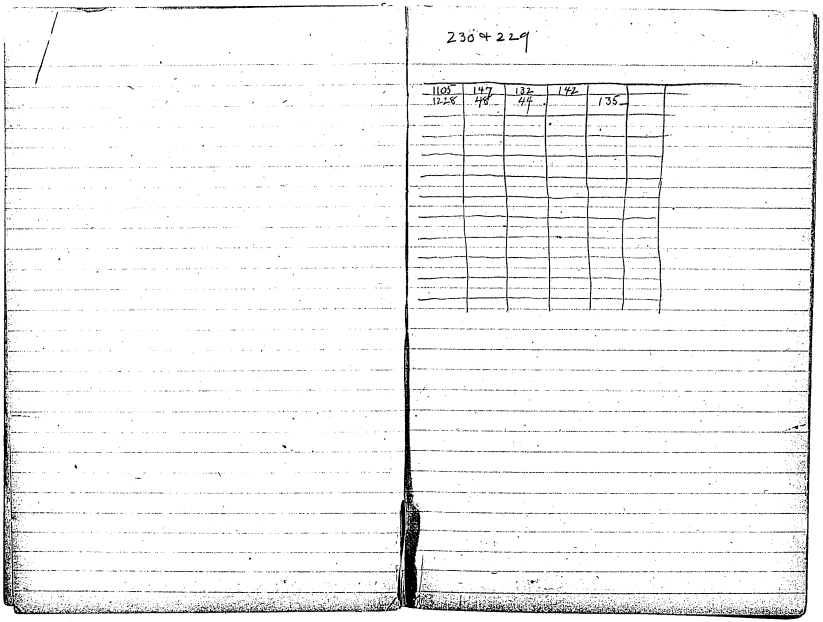
N_2O_3 Hypo process (note - this is prog agent permanate process and liquid turned green from Wednesday to Friday 232 + 233 mixed)

N_2O_3 (Washed free chlorides of Hypo) 7 3 graf

Measured ROH 20% - in 002 hi pass pressed in frame by accumpel

420	78	141	146			5	1st peg
4 04	73	130	134	367		4	
400	70	124	130		52	6	
350	82	76					
830	152	136	148				
900	120	109	124	68			2nd peg
915	93	77		93			
920	73	163		100			off
315	142	125					
336	108	97		40			
346	138	167					
347	121	107		64			
412	71	63		100			

all plug in


2304229
103
1228
147
48
137
44
142
135

234 empty 1.55 52/1008

full 3.30

Perox Ni made by dissolving Sulphate Ni once with Hypo leaving 1 hour & then filtering & then boiling completely down, then filtering & washing with Hot water (not all Chloride out) - Dried & then put in Evap desic & brought up to temp 4 @ 500 deg Fahr -

plate - moisture gref H_2O -

313	138	125½	134			
330	30					off
539	144	130	143			
546	112	100		15		
547	90	on gen. p. division				86
810	148	131	144			
825	110	96		32		

Plumbate Calcium (Kassner)
1/16 grid 7 plumbate 3 graphite
Zinc in KOH 20%

1st peg Volts .70 amps 37 333 pm

4th peg				
338	230	894		
347	220	57		4th peg
400	210	54		
412	198	51		
421	190	49		off — 421
424	196	50		
440	165	42		now 2nd peg
440	62	564		
450	60	537	wash	
500	58	512	220	off
510				
520	70	60		on
521	50	43		

53/1000

235 Empty 1.45
full 3.00

Mercury 7
graf 3

Soak in prep Cap Hg perchlorate K — then (filter), then boiled several times + decanted, only little chloride or KOH — wash water — stuff after drying + powdering is gray $$

1052	142	128					116 — Scrolled yes deal
12 —	64	58					

Boiling probably decomposes it to grey amalgamate

Ng

9:36 grid Empty 1.2
full 2 — 30/1000.

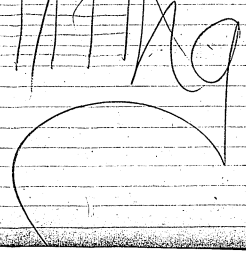
Electrolytic peroxide - was short of stuff probably bad contact Considerable Came out grid — 7 pts Ni 3 graf

Moistened Water —

422	105	80	
510	124	110	
515	88	50	
535	128	110	
580	40	38	

grid right down —

9:46 Most of the stuff has come out of grid in neck - fluid Bump too small —



236 1/2

Peroxide (chemical) lead 1/16 plate — 1/16 grid —

7 Peroxide 3 graphite 70/1000 Calliper

Moistened Water —

This is very promising - a PbO_2 Cathode made pure so it will all reduce to Pb_2O_3 Manganese will be dissolvable in liquid —

Mak

532	50	144	132			1st Pbo
536	600	102	144			4th Pbo
546	376	96	142	66		"
533	305	78	138	114		"
610	336	60	65	150		"
610	38	70				1st Pbo — So on this cell must be very low — Celeus —
630	38	65		145		
657	38	68				088
610	37	65				— off for night

Lead Continuously dissolves a residue by Zn on open cct MG

727	143	127	140	35		13
743	128	114		55		
752	126	112	123	65		11
804	121	107	122	88		15
821	108	99		113		
826	69	85		119		
830	71	83		125		
833	60	51		124		
81						

Effloresc smells slightly ammoniacal

off

I am going to reduce the Nickel by reversing as afterwards necessitate to account effect to —

615	132	120	135	11	2nd peg
620	118	108			4 peg
628	248	89		37	
633	228	71		17	
630	268	68		66	
635	220	56		29	
638	180	44		915	
638	80	74			2nd peg
640	81	73		98	
645	71	125		105	
647	40	110		107	
646	99	87			new Fe
650	92	241		111	
653	74	65		125	off

3.35
1.45
1.9

grid full. Callipers 58/1000 —

237 Empty 1.45 — 1/32 grid
full 3.35 —

1.90

Nitrate Nickel dilute acted on by Calcium Hypochlorite, Solution, 1 dg. stiff — used 4 jars washed clean — cold water — Stiff very black plate very hard — 7 hrs grey 3 pales moistened ROH 20% —

658	140	125	138			2nd peg
706	124	111	124	37		
710	60	55		237		off
736	142	128	140		12	2nd peg
746	130	117	128	22	11	
801	118	105		53		
822	108	96.4		93		
836	104	93	104	118	11	
840	97	88		133		
850	57	52				
←						
						See 194 —
135	137	130	144		14	2nd
2 —	138	120	134		14	
120	104	95		39		
294	108	97		63		
308	98	61		103		
311	87	42				
347	34	31				
224	133	119	130		11	2nd peg
233	110	98				
250	108	96		49		
307	102	90		79		
319	92	83		96		
323	72	64		104		

48/1000 -

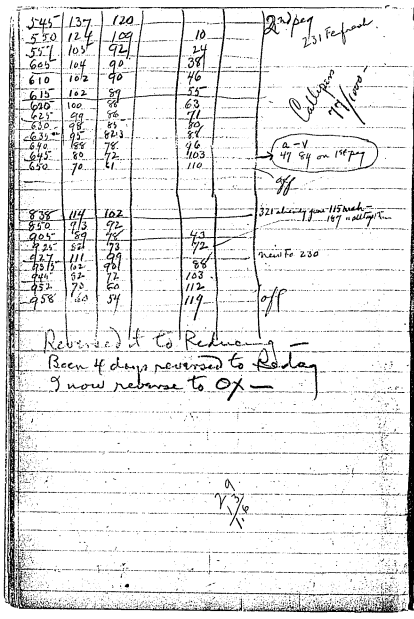
238

Empty 1.35
full 3.16

Ferric anhydrous OX acted on by Equal vols Co & Co_2 with heat. Black powder, somewhat magnetic.
6 pts FeO 2 pts prof

Mount 50% ROTT.

935	136	121	140		19	2nd pcq
905	130	115	130		15	
923	104	93		57		
930	102	91		129		
1145	98	87		194		
15	76	68		118		
1026	88	78		155		
1040	70	60		173		
1040	62	73				more ni
11	50	46		193		off
4 -	110	96				2nd pcq seems to have not
~~5 20~~	~~70~~	~~60~~				higher prof
5 20	70	60		120		
5 20	80	70				more ni
5 30	62	53		170		off



545	137	120				2nd pcp 231 Reformed.
550	124	109		10		
557	105	92		24		
605	104	90		38		
610	102	90		46		
615	102	89		55		
620	100	88		63		
625	99	88		71		
630	98	83		80		
635	95	82.3		88		
640	88	78		96		
642	80	72		103		→ 47 84 on 184 pg
650	70	61		110		
						off
838	114	102				321 closing gun 115 mark = 109 = adding 5
850	113	92				
905	89	78		43		
925	82	73		72		
927	111	99				trim To 230
935	102	90		88		
944	92	72		103		
952	70	60		112		
958	60	54		119		off

Reversed it to Reduce

Been 4 days reversed to Relax

Now rebrose to 0x —

$\frac{1}{32}$ grid

239 Empty 1.3 1.60

full 2.9

Drop of 237 7 pts. trap 3 pts.

moist H2O — 0x03 in load.

Centering only 1% of KOH, to prevent swelling

405	120	108	119	6	10	2nd 227 4th pcp	
408	310	81	104	11			1%
410	240	76		51		48	
424	70	48					
326	115	102					
337	103	92					
344	94	83		39		2nd pcp	1%
4	40	34					
835	125	110				used iron on wing gun 125 mark	
843	108	96		39		24 pcp	1%
852	105	92		45			
9—	102	89		5/64			
907	92	83				off —	
916	78	68					
926	52	46					
133	145	128	142	16	.14		
140	129	11403		27			
100	123	10723		46			
155	113	96		60			
203	96	82		70			
210	74	65					
912	138	122					
930	110	93		33			
940	103	92		53			
953	96	83		74			
10—	83	72		86			
105	67	55				off	

Mathieu's Plastic Concentrate (mild)

Vacuum in 20% KOH

440	111	98		95	
422	109	95		117	
433	109	93		1/10	6
441	109	90		1/50	11
445	70	54			

Dissolved yard of KOH

2 1 7 1 9.5

10— 144 127

1011	120	104			2nd pcy
1019.5	115	102			
1027	113	100			
1047	110	96		93	
10 51	105	19		1100	
1105	103	98		135	
1110	100	86		138	
1111	137	120			new Fe 231
1120	128	112		154	
1125	120	104		165	
1130	110	96		174	
1135	107	94		183	
1142	69	52		192	

60 V on 1 Hpcy

10—	144	126		33	
1015	124	108		231	
1025	117	1035		52	
1039	114	101		71	
1045	112	99		80	
1053	110	96		109	
1105	107	94		127	
1120	104	91		153	
1130	100	88		170	
1140	93	82		186	
1146	135	93		195	
1151	127	112		206	
1157	123	109		219	
12011	121	107		231	
1205	118	104		239	
1210	108	94		249	
1215	108	95		253	
1230	106	94		262	
1243	88	64			

to be dissolved alone 2 2/3

1 1/2 1/2 1/2 1/2

745	134	120	142	22	Thin odorous Lunge Reaction
813	124	109	118	16	
824	107	94	110	78	
837	104	92		101	
855	102	90		132	
908	100	88		152	
927	98	86		182	

See next page

1/8 plate —

240 — Empty 1:7
full 83/1000 4.6

Big Lot which has been previously boiled & sun tried — treated after it was dry with 20% KOH. Several times till yellow nearly gone then washed free of KOH, + dried — (4 stocked all nite in KOH 20%) Lutheran Case used 6 of NO + 4 of Graf as the grid is thicker — 2% Sol of KOH — (water — moistened with water + pressed very hard in screw press with 1 man along lever — plate very hard & tough to handle — Dwells even in 2%

212	120	106			2nd
215	110	96			
740	400	102			
745	320	94		18	4th pcy
758	282	84		43	
755	260	78		69	
800	235	62		86	
805	91	87		90	
805	84	84		96	2nd pcy
810	84	84		105	
826	84	82		130	
830	88	82		136	
833	84	78		143	
840	82	78			off
824	150	132	144	12	
845	114	103			
11	112	100			

927	95	86		182	240
940	87	83		203	92 m on 11th pg
950	84	83		219	
1005	91	81		242	
1015	89	79		227	
1021	88	77		266	231 dwd 273
1026	94	74		273	
1027	118	100			mw Fe
1028	77	72			to thin + Rebatch
1029	70	60			68
		240			
825	290	98			4th pg
826	350	80		80	
840	270	74		123	
855	337	91			231 mw Fe
903	338				91 clear on 11th pg
910	274	70	107	281	
925	124	32		261	

1/32 grid

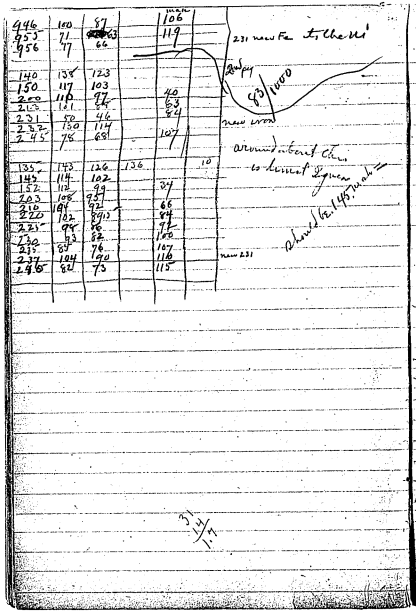
2.20 WW

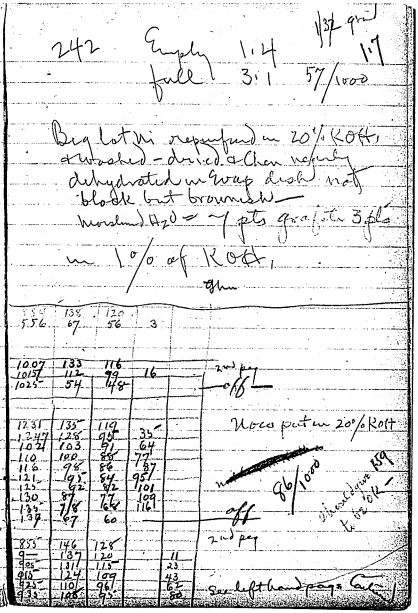
2.41 — Empty 1.145
Full 3.65 50/1000

Hematite could not be tried to reduce to ferrous but only want to make wustite - can @ 20-22 mm Fe g pts.
2 pts graffite —
Wustite) Kott 50 05

215	132	117			
226	94	71	50	127	mw to the Fe that plugs) —
	96				

231 hms 295 —
+ gwn 3 no mesh
50 Screen or better —


446 100 87 106
455 97 119
456 17 66
231 new Fe + Chelate
140 158 123
150 117 103
200 116 97 40
205 121 54 63
221 58 46 84
232 130 114
245 78 68 107
2nd pg
90/1000
new conc
around about the
to lowest figure made
should be 145 Tuesday
135 143 126 136 10
142 114 102
152 103 93 84
203 108 95 66
210 98 82 64
220 103 89 77
225 95 76 88
230 83 62 100
235 85 76 107
237 124 120 110
246 82 73 115
new 231
31 1/4 1/4


242 Empty 1:4 1/37 gm
full 3:1 57/1000
Beg lot M repumped on 20% KOH
shrunken - dried a Chem reagent
dehydrated in Evap dish not
blackle but brownish
Measured H2O = 7 pts gravity 3 pts
in 1% of KOH
556 135 67 120 56 3
1007 133 116 16 2nd pg
1017 114 99
1025 54 48
1231 135 119
1247 128 93 35
102 103 51 64
110 100 88 77
116 95 86 87
121 93 84 95
122 92 82 101
130 87 76 109
133 76 66 116
139 67 60
Moca put in 20% KOH
86/1000
off
855 146 128
9 107 120
905 131 115 11
910 124 109 43
923 110 96 63
934 105 92 80
2nd pg
See left hand page

to grid

243 — Empty 1.165
full 4.13 83/1003

Sulfur Nat Mn-dio on H2O dpgd by KOH & acid on copper 3 days ea. Heptane well washed, then dried-after drying put in 20% KOH & soaked. Then KOH washed out, plate H2O micro
Co of perox 4 of graphite
put in 1% KOH
pressed hard

557	144	126			
601	128	113			
15	72	63		9	
545	112	98			
846	147	129	142	4	new Fe 231
856	139	113		27	
910	72	64		151	off — More put in 20% KOH
447	150	133			
506	138	120			
507	132	116		47	
524	128	112		175	
533	72	63		46	off

4 3 2 1 0
3 2 1 0

244 Empty 1.125
filled 3.35 52/1000

precipitated Nickel Sulphide
from Ni sulfate by NH_4 Sulfide 7 pts
graf 3 pts

Moistened with water
takes OX fume –

313 / 315	128 / 80	111 / 72			98

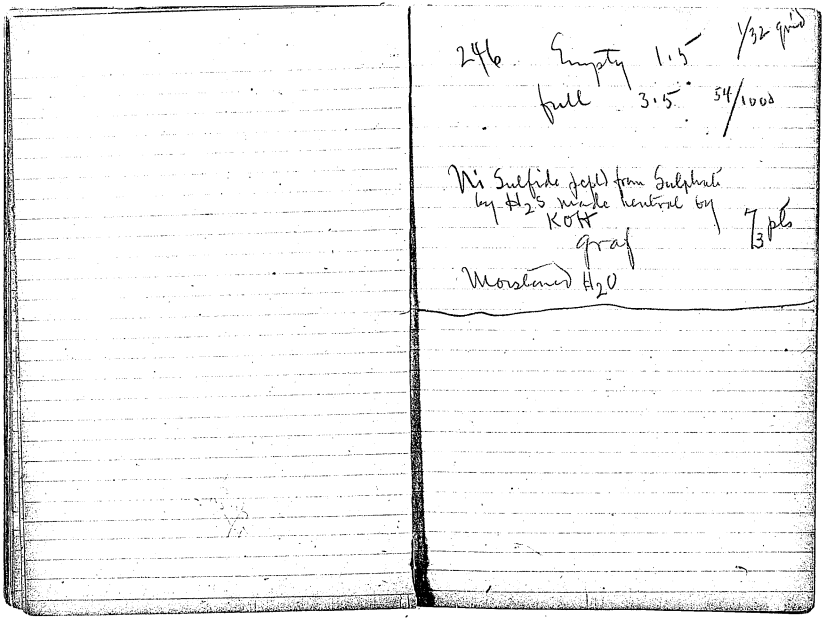
dwells fearfully 29

245 Empty 1.55
full 3.17 51/1000

Phosphide nickel Ni_3P_2 7 pts
graf 3 pts
Wet with H_2O —
Takes ox fine!

302 310	135 18	120 10	132		12	88 —

Swells fearfully
Even if good
impracticable
Except perhaps it was
wkd in water sat
to stop swell —


246 Empty 1.5 1/32 grad
full 3.5 54/1003

Ni Sulfide ppt'd from Sulphate
by H_2S made neutral by
KOH
gray
Moistened H_2O
7/3 pbs

New grid Little Abrahs

247 Empty 2.6
full 3.5 49/1000

Sulphate or Nitrate Cant remember
Nickel acted on 4 drops over
Hypo
graf 3 pts
plate ½ X 1.13/16 long
This is not ground but granulon
just as it dried out

732	143	127		39	
748	122	108		60	
804	67	54			
334	142	126.3			
345	105	94		27	
350	103	92		31	
355	100	85		39	
4	86	76		46	
402	55	48			

Doubled some less (than 248)

Don't seem to
be good as 248
Both poor

Not shaded

to be good

126 -

II new grad

248 Empty 2.6
filled 4.15 55/1000

Ni precip Hypo 4 days same as 247 graf 7 pts

Mineland water -
ground fine, to Compare with 247

505	135	122			
521	110	96		33	
536	53	46			86
1148	137	119			
1163	114	99		31	
1210	109	93		44	
1223	102	85		52	
1229	52	40			0/6
408	128	114			
421	108	93			
493	50	42		54	

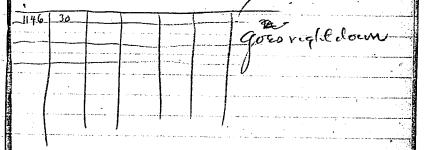
Should give 115 and 5

This is not good —
Can't bet the stuff

Cyanide -

249

Cyanide Ni –
Ng - Zinzells



56/1000 1 13/16

250 grid Empty 2.7 1.45
full 4.15

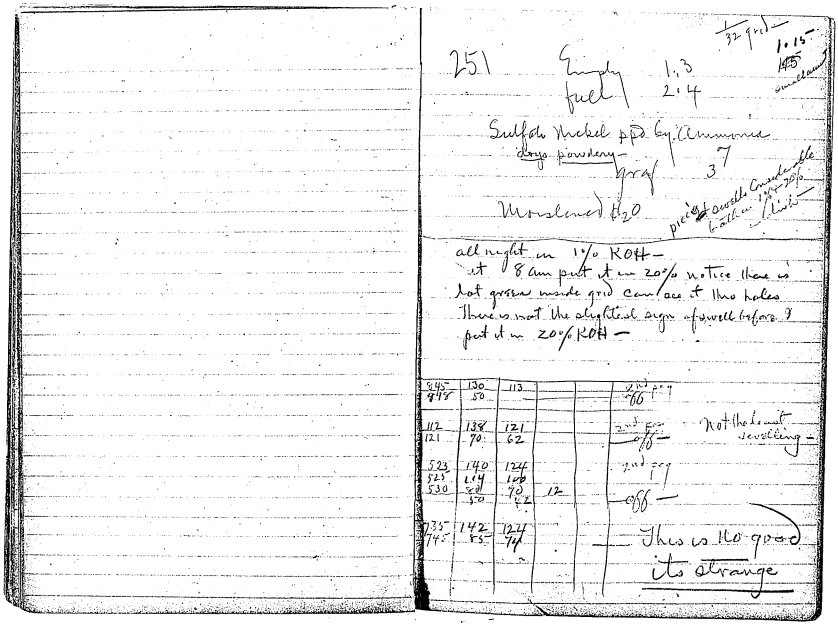
This is dehydrated Sulfate Nickel put in Methyl alcohol Saturated with Stick Potash — then Washed in Water Dries to light Colored powder, dont Cake! — a moulded piece dont swell in 20% KOH or 1% —

1st put in in 1% but in 1/2 hour only gave 2 mash — put in in 20% KOH, then showed up from — 7 pts to 3 grafts

Notice holes in grid very small burrs not taken off good on plating needs closed them — its from milled —

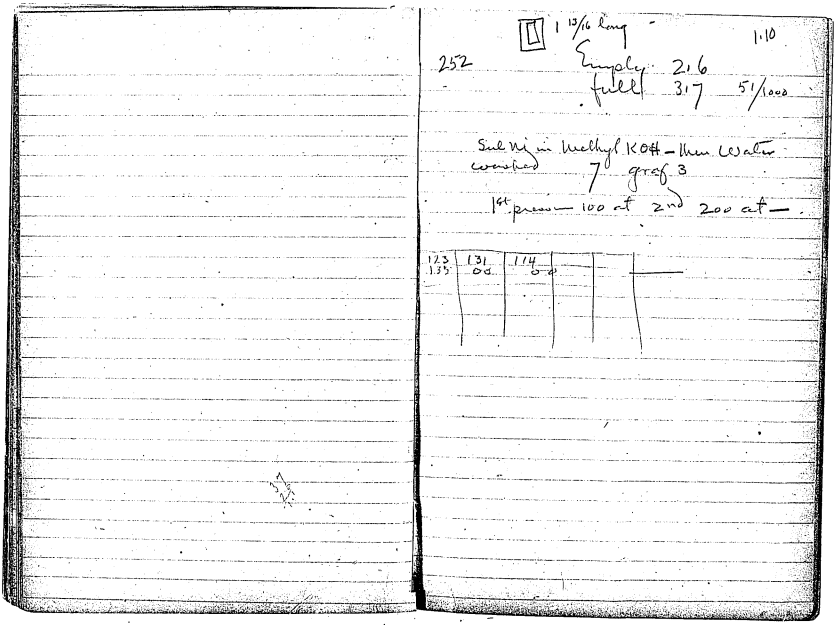
Some of the wire over dehydrated

608	80	128				1st peg
609	77	116		2-		
610	64	114		3		
611	40					off
753	70	126				1st peg grid split
8	63	112				+ one side
805	60	104		7		busted open
835	58	103		13		
846	38	67				



251 Empty fuel 1:3 2:4
1/32 pre
1:15
145
Sulfate Nickel ppd by Cummins
dry powdery
prep 3
Monolevel H2O
placed in well Cadmium plate bath 1 min 20%
all night in 1% KOH —
at 8 am put it in 20% notice there is
not green inside grid can see it thru holes
There is not the slightest sign of swell before I
put it in 20% KOH —

945	130	113			2nd pre	
945	50				66	
112	138	121			2nd pre	Not the least
121	70	62			88	swelling —
523	140	124			2nd pre	
523	114	108			117	
530	58	70	12		88	
	530	42				
735	142	124				This is no good
745	85	74				its strange


1 13/16 long
1.10
252
Empty 2.16
full 3.17 51/1000
Sulfur in methyl KOH - then water
washed 7 grafs 3
1st pressure 100 at 2nd 200 at
123
135
131
od
114
od

1/32 grid

253

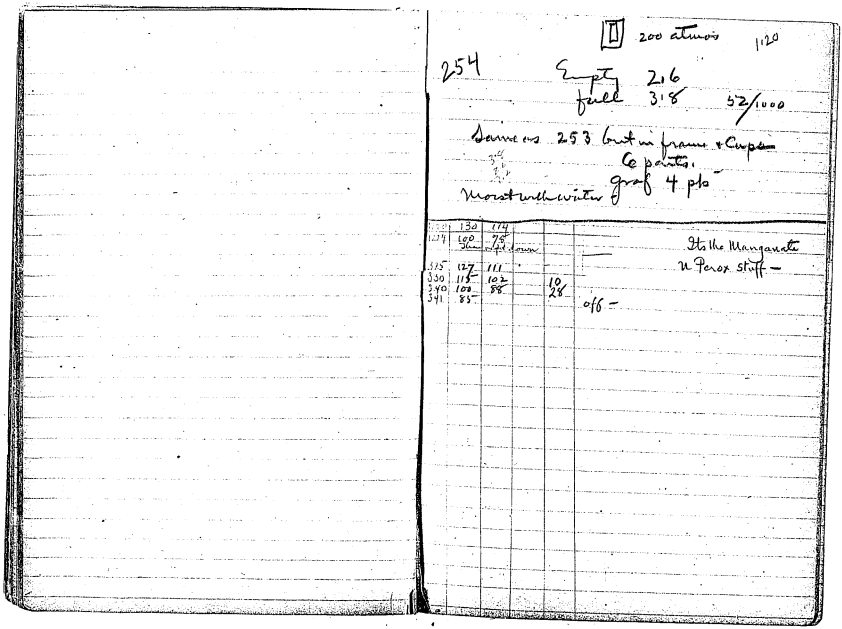
Empty 1.4
full 3.105 63/1000

1.165

Ni_2O_3 Hypo process washed free Chloride K graf 4 parts Ni 6 pts
Moistened water —

Thus stuff pressed in plate + put in KOH 20% dunt overfl — in Ni chest —

1056	139	123				only been at Current for moment
1	138	114		9		
1114	35					off
1203	136	120	132		11	
1203	130	112				2 wks
1212	100	93				
1212	98	104				1 1/2 wks
1218	49	68				
286	147	120	143	25	14	
247	127	104				
255	109	98		40		Think there is the
3	106	93		49		Manganese stuff
305	95	186		58		mashed + put in
310	70	83		64		curing bottle →
242	137	120				
245	123	111				
253	110	96		22		
202	100	88		37		Squeezed full of
215	72	63		56		Manganese —
745	143	127				
754	128	113				No good —
305	117	103		20		
317	82	73		73		
329	64	56		63		


200 atmos 1:20

254 Empty 216
full 318 52/1000

Semmens 253 bent in frame + Cooper
6 points.
graf 4 pts -

Worst with winter

	130	114		
1214	60	75		
	Jam	off down		
315	127	111		
300	115	102		
340	109	88	10	
341	85		28	

Stalke Manganate
N Peroxstiff -

off -

D

255

1·20

Empty 2·6
full 3·8 56/1000

Same as 253
But Coke 15# pressed 100 atmos
put in Cups & frame & pressed
again only to 150 atmos.

6 pts MnO_2
4 pts gr.

341	118	104			
350	103	92		16	Manganese Majs =
404	97	84		33	
	59				off =

1 1/16 –

256 Empty 216 1.2
fuel 3.8 52/1000

Mi Peroxy, Hypo– 6
graf 4
Immersed H_2O
plate pressed 100 at
grid " 100 "

17	120	105		3
10	111	98		24
6.32	99	87		34
6.40	97	72		36

Thin mount right down

1255	146	132	142	
1219	142	124		2nd prep
1257	128	113	46	
1.24	85	57	47	
206	143	127		2nd prep
215	133	117	13	
214	128	113	20	
221	123	108	32	
2.22	111	102	40	
230	97	84	49	
231	88	76		off
955	141	124		2nd prep
	123	108	11	
910	122	99	31	
923	109	96	55	
935	108	94	67	
940	121	82	82	pretty good

should go black

Double Concordable but not often good

1/32 grid

257 Empty 1.3
filled 2.195 55/1000

Dehydrated green NiOx to black but
transparent brown by micro + Lumyte blue — 600 deg
6 pts

Trap 4 pts
Mirrotron RO# 20% — Broken —
Count press at dry 100 atmos (100 Cycles)
Considerable Comes but in cell,

146	143	126			
151	123	108	11		2nd freq
152	90	78			96
153	138	122			2nd freq
154	113	100	29		88 -
155	80	70			
601	350	90			44 1/2 freq
605	208				2nd freq
609	118	102	112		42
610	113	100			31
137	112	99			40
138	82	72			44
719	143	126			
732	111	98			55
1005	108	943			49
115	60				
120					

JO 100 — nickel with 23/9 17% Fe
been over a month to show case change

508	122	110	118		
510	113	101	0		
516	110	95			
525	104	92		31	
527	102	91		34	
527	272	72			
529	370	96		40	4th pcg Ind 3/pow
533	372	90		82	
540	391	86		110	
545	320	83	116	137	
550	308	75		163	104 ma 2nd pcg ~120 ma
559	296	76		189	Thin to fine —
6 —	289	74		213	

94%. 110 ma 2nd pcg

1 1/16 —

256 Emply full 21 4. 58/1000 Beats 17 1.4

Dehydrated Orium Mg Ox- 600 deg Tabs blocks.

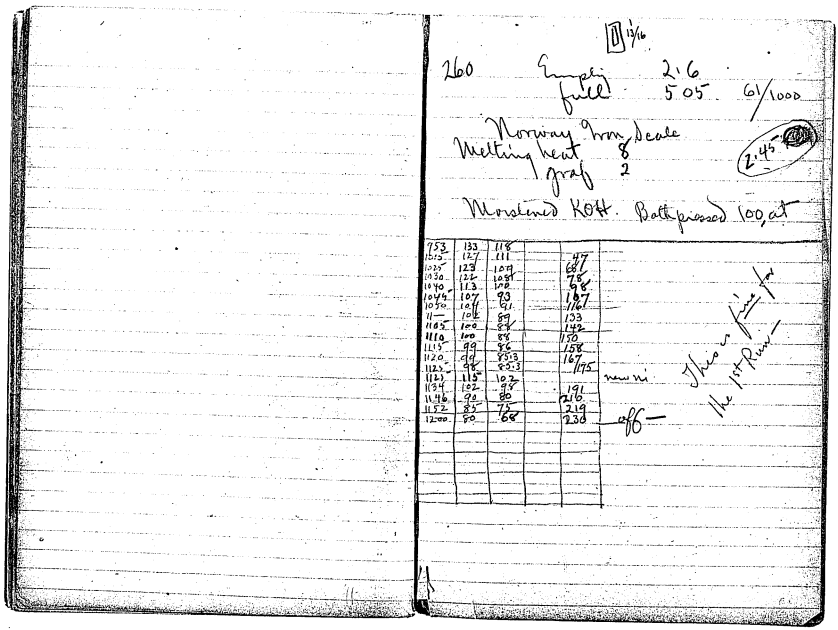
Moist H_2O- 6.0% 4 prof

130	140	134		
133	68	58		
238	130	113		
246	32	46	15	

259 Empty fills 2.6 1.4 4 58/1000 Factor 112

Old Bug lot powdered dehydrated 350 Falc
6 pts Graffite 4 pts
Mountain Water 100 atmos (cloth)

5	135	121		
5.05	124	112	10	2nd peg
5.09	104		18	
	went to pieces			
620	135	121		
625	120	106	10	11
630	114	102	20	
635	111	98	29	
640	went to pieces			— nothing considerable came out
		5		
252	113	101		
304	106	90	25	
316	102	92	49	2nd peg
320	101	90	96	
325	92	82	62	— gone to ruin work down
326	52	46	1	
330	93	82	4	
335	92	91	8	
343	40	38	13	
348	36	33	18	
355	37	32	21	
400	33	30	24	3rd peg
405	30	26	28	
410	22	20	27	
415	10	10	29	
420	8	6	30	
423	8	14		
430	6	8	31	2nd peg — open 5 minutes
	went to pieces			
9:15	138	130	33	2-31 new — 2nd peg —
20	130	117	29	
30	130	115	35	
40	123	110	54	
50	60		74	



13/6

260 Empty 2.6
full 5.05 61/1000

Norway 9mm Scale
Melting heat 8
graf 2

2.45

Monsieur Koff. Bath pressed 100, at

753	133	118		
1013	127	111		47
1035	123	109		68
1050	125	108		75
1040	113	108		98
1044	107	93		107
1050	108	91		110
11—	108	89		133
1105	100	89		142
1110	100	89		150
1115	99	85		158
1120	99	83.3		167
1123	98	82.3		175
1133	115	102		
1134	102	98		191
1146	90	80		210
1152	85	73		219
1200	80	68		230

new m

Throw first test
the 1st Row

off

13/16

261

Empty 2.16

full 4.05 58/1000

1.45

116 fractions

Big lot powdered + dehydrated at 500° Fah. in rotating Cylinder 6 pts Graphite 4 pts Moistened with water

639	124	110			
645	113	100			12
650	clamp				
128	128	116			
210	134	116			25
220	126	107.5			45
225	114	102			55
230	84				clock stopped

13/16

262

Empty 2.6
filled 4 58/1000

Electrolytic Peroxni from Sulp Ni + KOH
all powdered — 6.0% graf —
Mounted H_2O 100 atmos 60°C

231	114	104			
215	104	94		25	
251	97	86		35	
255	46				

Note

Weight new 28 holegrid
42.9 grammes
Weight of 48 Cups for 1 grid
Weight 25 grammes
Total 67.9
1 Cell 32 grids 2176 gms
4.53 lbs

263 Empty 216
full 3.195 57/1000

9 grid
Green Millipore made in bag Cloth filter 6 pts
worsened worked 4

8 drops water, 80 mg per drop.

334	135	121			12	
446	120	105			29	
108	44					
555	136	122				
600	113	100			10	
610	110	98			29	
615	110	96			39	
620	106	94			44	
625	70					
510	143	129	142			
522	124	113			37	
538	114	103	110		59	
549	103	94			63	
545	102	93			71	
550	97	87			80	
553	71	78			84	
554	68	70				
247	138	125				
254	129	116				
257	122	107				
302	118	107				
306	104	94				
316	104	94				
327	101	90				
335	100	90				
337	94	85			81	
342	94	85				

108 1/2

101 1/2 / 1000

66

9 grid that
stuff has slipped away
from the grid badly
in pressing it in
10 or 15/1000

203	143	125	143	11	
208	125	114		20	
213	120	107			
218	110	100			
223	103	94			
228	101	92			
233	100	90			
238	92	80		64	
243	60	42			

Stuff absorbed in Grid Lake 63 –

264 Grid Empty 3.4
full 4.9 58/1000

Green Nitrate make in big cloth filter
6
4
120 Watts

Moistened with Conc KOH,
about 8 drops. 8 drops is out of one drop

338	142	126	140		Notice it appreciably absorbs
340	134	120			at least two or 3 times more Mah
343	124	113		15	than they usually give out + 3
353	62	56		26	percent this is due to MnO_2
					& Mn_2O_3 + then going to MnO_2
523	138	123			the latter being the active material
530	112	102			
5/03					
533	127	120			new Fe
540	126	114		41	
546	123	118		53	
550	120	107		41	
552	106	85			
553	80	66		66	
554	65	57			off
					78/1000
905	123	112			
910	110	99		29	
920	109	96		147/56	
925	104	96			new Fe — No 231 Mandy was ruined
927	127	114		56	by 10 ml of
930	128	115		65	
935	109	97		74	
940	69	57		82	
945	66	53			
952	58	50		71	
1014		4		102	

wet Clamp

537	132	120	don't think this fully charged
542	110	100	
547	110	98	
552	106	97	
557	104	96	
602	104	95	5
607	101	93	
612	100	92	
617	100	90	
622	98	87	
627	90	82	

935	143	127	
950	127	116	
1013	104	92	77
835	44		

D

265 [illegible] Lotion out
[illegible] Cotton dried
then re-cooked in Kolt
at 100 atmos + put back
in mud 100 of cotton
then if it crumbles again the
factor 120.

Cumpl 2155
bull 405- 50/1000
Mount Coated KOH, both pressure 100

Beg lot dried - then put in KOH 20%
several times to soak off yellow
stuff then washed free of KOH
then soaked happa 3 days
in tumbler + most decanted off
put in flatter + Cample tumbler
full bath pressed thru
Undried — it is of course full
of Chl Soda + KOH + dried.
dull mat dead black
polishes to clean Merton 644

1134	134	120		1220	60	56	99
1139	142	128		1225	60	52	
1044	118	98		1230	55	47	
1049	105	94		1235	50	47	
1054	104	90	clamp open	1240	45	42	
1059	102	110		1245	45	42	
1104	118	104		1250	40	38	
1109	128	114		1255	40	37	
1114	128	110		1300	40	37	
1119	120	104					
1124	64	60					

266 Empty 3.12
filled 4.19 96/1000 1.7

Made in bacto cloth filter 6
graf 4

Monstrued KOH Cnctd-

Plate pressed 50 at
6(rid) " 100 -

120	130	118		
125	126	114		
120	124	112		
110	122	110		
120	118	106		
127	110	99	74	
131	56	52	85	

-066-

4.15
2.65
1.50

267 filled Empty 2.65
4.15 60/1000

Mundenberg filter cloth 6
" " wrap 4

Mount Cinch Rott
1st pressure 50 almost
2nd " 50 almost

10 30	12 45	17 0	0
10 35	11 5	20	
10 40	110	1 20	
10 45	110	9 5	
10 50	106	9 5	
10 55	104	9 5	
11	14	8 3	
11 05	16	9	
11 10	10	8 2	
11 15	9 7	8 2	
11 20	8 9	7 6	8 7

266 Empty 2.153
full 3.993

Muslin cloth filter 6
graf 4

112 feet

Mont Cmctd KOH.

1st pressure 50 atmos
2nd " 25 atmos

6—	131	123		
606	121	110		
610	114	104	20	
615	110	99	30	
621	104	94	40	
624	98	92	43	
				118
8—	143	130		
810	123	113		
820	120	105	47	
830	93	86	60	
838	85	80		

269 = Empty 2.155
fuel 4.10 57/1000

This is the stuff taken out of pots 263 & 264 - put in new pots.
Both pressures 106 atmos.
9 dried & just a little after leaking pots before opened in water — 1557 129 factor

11.18	300	79			4th pcy
1120	280	76		9	
1123	260	69		132	
1130	231	62.1		58	
1130	90	93		50	2nd pcy
1135	93	84.2		69	
1140	83	82.5		68	
1145	90	81		75	
1150	87	75		83	
1153	82	74		90	
12	72	66		97	
1202	80	74		100	
1205	67	60		106	
1210	69	56.9		111	
1215	60	54		117	
1220	57	51.2		122	goes to 90 in 5 sec on open
1225	63	50		128	
1230	150	47		132	
1235	47	42		136	off
927	143	127			2nd pcy
946	126	114		20	
955	118	107		39	
1010	101	90		87	
1025	50	46		108	

Good!
Had 9 [illegible] 2nd pcy probably U out [illegible] to bottles
new Fe to the Ni that is gone —

842	137	122			
553	182	180			27
913	100	90			62
820	93	83			70
921	125	113			71
833	122	112			70
933	68	60			65

new Fe

Have put it Pedeg

270 Empty 2.55
filled 4.30 58/1000

Stiff mode in big cloth filter bag dried – then put in 20% KOH & nearly boiled 2 or 3 times to get the yellow discolour out which Colord KOH. Kept renewing liquor till there was more washed with 2 or 3 beakers full (small) of Water, filtered + dried, put in Conical Centrifuge & Above KOH, it dried OK –
Freddy used Conc KOH + boy made & got too much in & it squashed & bunted 2 grids further, we got it in – guess it's rather unsafe but this may be good thing
6 pts graphited 4 pts
both pressured 100 kilos

837	148	130					
916	126	116					
852	134	114					
920	140	116					
1046	130	108					
1014	135	120					
1034	100	90		92			

271 Empty 2'55"
full 4 25 59/100

Drop of Z-70 but not as vast
as equine vast, 100 atmos 6 alt

136 hrs

11—	146	130			2nd pay
1108	127	114			
1108	537	88		18	4th pay
1110	310	80		24	
1116	110	30		58	
359	133	121			
9—	109	99		42	
916	106	9615		71	
922	103	95		81	
927	102	93		93	
932	97	88		98	
~~935~~	96				
935	70	66		100	off —

2/2 Empty 214 — full 405 — 53/wk

Duplicate of 270. cliff on 6½
Cloth folded 7 But
Medical only 4 pts
grafts 6 "

Tests 82
to equal 240
for 91

Monitored Conc Kott.

Pressed 1st & 2nd 100 always

137	132	118			
145	113	102	16		
151	109	94	27		
153	109	88	21		
156	50	53			

Pulled 13

Swelled considerably not necessarily tender

827	124	110			413	134	122	
845	108	96	18	24 hrs	420	115	104	
855	102	91	33		430	110	100	
905	100	87	50		430	108	99	(5)
912	97	84	50		440	103	94	
918	50	90	61		440	88		
926	50	92	63	14 hrs				
929	49	90 03	68	68				
935	39	96						

A>

941	134	120	
953	133	88	23
1010	93	82	51
1020			gone when I looked

273 Empty 2.55
filled 4.70 57/1000

6 pts Ni
4 grms
Moistened Conc KOH. both grams 100

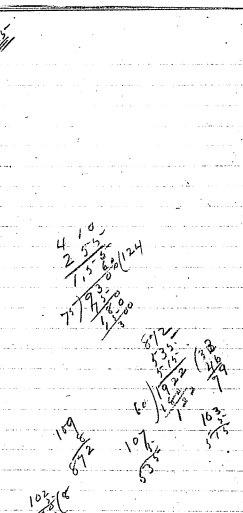
Stuff made either from Sulfate or Nitrate precip by KOH, then in Hypo acting for 3 or 4 days w/ several washings afterward washed well — no KOH + very little ChlK in it — Dried then reheated Cold 20% KOH Dried then reheated Hot 20% KOH, + only washed in small beaker twice leaving large amt KOH in it & shrunk to granules about as big as in boiling KOH =)

197	134	122	10	1/2 hr 10	Don't notice any swelling
203	118	104			
205	109	94			
215	89	86	34		
220	86	78			

445	120	110
450	120	102
455	105	97
500	102	93
505	100	90
new mount 510	92	85
512	90	82
517	82	82
521	82	82
527	66	74
532	60	48

(over)

25



Z74 Empty 2.15 5 —
full 4.1 54/1000

Sul ni ppd ROH Ice water —
Washed quite free 6
graf 4 —

Moistened Conc ROH Gutbrunn 100 Ar
(124 pads)

I = 105	128 50	115		off
445	143	128		
450	132	118	11	
507	118	103	46	
515	110	96		
520	101	93		
525	102	94	79	
530	102	86	817	
535	86	59	965	
540	103	45	1041	

Smelled to 104/1000

809	146	132	140	
820	130	117		25
842	110	98		69
853	103	103	102	98
905	90	92		118
927	92	84		151
952	80	63		
952	70	61		181
	73	50		196
1235	47	42		217
145	46	37		234

new Fe

840 open — 11 sec

240 was washed with acetone then was washed with Conc KOH then with Conc HCl

27.5

Empty 4.8

full 9.02 75/1000

Modified cloth filter 6 3.22

Graphite 4

Factor 300

Mount Conc KOH.

Both pressure 100 at —

106	130	117	126						Dwelled some
122	110	98		32					
130	107	95		46	new Fe				
131	132	119		66					
140	127	113		104					
2—	106	96		138					
210	104	93		139					
220	101	91		147					
235	100	89		164					
240	99	89		173					
245	97	87		179					
250	98	79		187					
255	75	66		195					
300	73	65		200	new Fe				
305	63	58		209					
325	61	57		210					
345	60	55		215					
									Mr. Mudge to MP 9.11.22
530	1360	131			810	80	92	174	
530	136	120	+		856	70	62	180	
535	130	116			1001	61	49	184	
545	124	110			1006	61	49	191	
550	106	86	+	74	1011	60	47	196	
9	103	83		83	1016	58	53	200	X
905	101	82		91	1021	55	53	204	
910	100	91		99	1026	50	44	209	
915	130	118		108	1031	50	41	213	
920	121	112		118	1036	46	41	217	
925	121	111		129	1046			Off	
930	120	109		139					
935	119	107		149					
940	118	103		159					
945	118	103		169					

276 Empty 4.85
full 8.40

Norway, Irma Scale 8
heated & thermometer
ground samples in Water
graphite 2
Mossberg Cinch Kit
100 atmos Gothi pressure

8.40
4.85
3.5

910	142	124		Dark fog
918	133	118	17	
953	123	109	91	
1010	110	97	134	
1018	109	98	138	
1034	104	94	162	
1105	103	91	222	
1120	102	89	247	
1130	100	88	264	
1131	108	96		recovered
1148	104	92	280	
1123	98	86	306	
1204	91	80	320	
1215	81	72	336	
1225	70	60	338	
1238	69	60	362	
1242	52			off

752	136	123	136	
820			91	
220	137	122		
230	113	100		20
251	109	96		59
308	68			

247

A small grid 13/13/16

Empty 2,55

Full 4,130 60/1000.

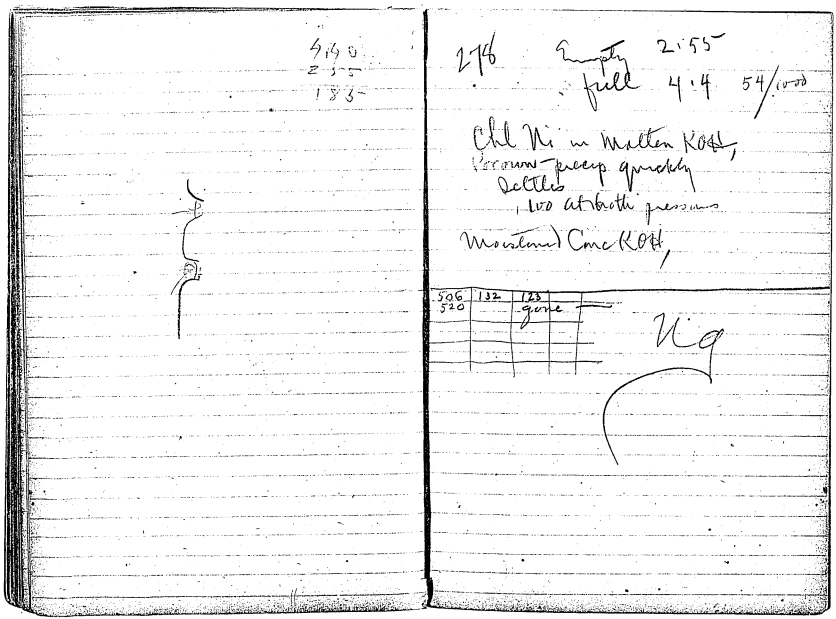
1.75" but with 150lb pressure only 1/8"

Sulph Ni pp by KOH in Ice Water
very pressed impurities 6
Graf 4

Then made very wet with Conc KOH
so graphite scarcely showed + ac wet
it balled up under pestle
dried in dish over steam plate
at 100 atmos plate very rough
only swelled little when place
part in KOH 20%

Bath pressure 100 atmos
(factual 120)

479	134	114	
484	116	96	10
487	92	37	780
602	147	181	
607	135	121	11
612	132	117	18
615	126	113	29
620	69		off



279 Empty 2.15
full 4.125 .51/1000

Nitrate Nickel (ammine)
Hexaquated w
Barium Platinum Knott
Brown & Lost considerable
Some way probably dissolved
using 1 gr of Nit Ni only put
1/2 of solvent go from Chloride to
Sulfate same wet in Current
lot of stuff came out showing a
Compound was formed =
6 pts
Mounted Conc Knott 4 days
100 atmos both

260 Empty 2.15
full 4 15 50/1000

Sulphate Ki powdered precipitated wt.
Boiling Matter KOH
Borax probably anhydrous
6 pt. graf 4

Worst Crack KOH.
100 atmos 6 with press

Put Chl K in Sol.

goes right down
to 60+ Then very fairly
well

Can't be oxidyd to Mon Mg

25°

Empty 2.65
full 4.125 51/100

Chl Ni Conc Sol poured in
KOH, 350 Fahr –
– Brownish when dry
but transparent under Microscope
Lighter in water, washed
fine, ppt. sunks down quick
6 pts

Prof 4

Mixed and Conc KOH, not Colloid
100 atmos

107	131	114					
537	110	96					

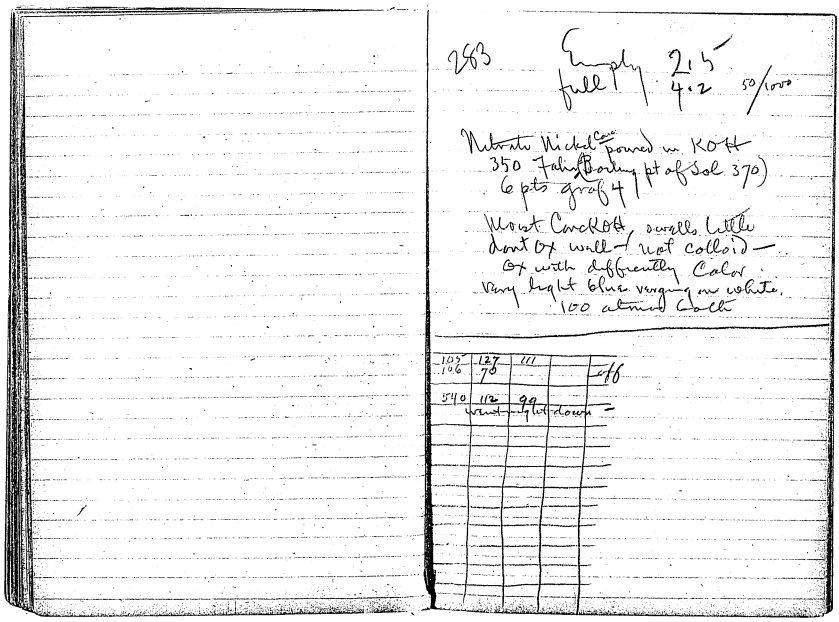
284 ~~287~~ 282

Empty 2.15
full 4.28 56/1000

Chloride Method pp by KOH, dilute
well washed —
6 pts
graph 4
100 atomic basis — Mount Conc KOH

120	141	123		
5 45	128	110		
5 50	108	96		
5 55	102	91		
6 —	100	90	37	
605	99	86	35	
610	95	83	43	
615	92	85	51	
622	83	73	61	
630	78	66	71	
637	76			

136 factor


283
Empty 2.5
full 4.2 50/100
Nutrients Michel Cre poured in KOH
350 Fahr boiling pt of sol 370)
6 pts graf 4
Most CuoKOH, walls little
dent ox wall — not colloid —
ox with differently Color
Very light blue verging on white.
100 atmos Cook
105 127 111
106 78
540 112 99
wrist — left down —

284 Empty 2.6

filled 4.2 55/1000

Nickel Nitrate ppt by KOH, washed well — 6 grafs 4

Moistened KOH — Cont'd

100 atmosphere —

128/sec.

201	137	120			2nd ppt
206	127	112		11	
210	116	100		14	
2 102	60	54		1	
455	124	111			
458	127	98		29	
453	126	94		38	
5	103	93		46	
505	102	72		154	
510	98	84		68	
517	100	87		71	
516	50				

294

Empty 2.5
full 4.3 57/1000

Sulm pp KOH to a mush put mush in filter + filtered then added 1/2 pint water — to full KOH + SulpK — dried to powder
6 pts graftite 4 pts

Moistened KOH Conc 6 oth 100 of mix

144 factor but the factor is unknown

442	145	122		
445	63			If swell somewhat any
425	139	121		
430	109	97	10	
431	58			
418	121	108		
428	102	93	15	
430	104	92	22	
433	90		28	
	50	60		
457	140	124		
1385	127	112	17	
621	114	97	49	
619	104	90	83	
1620	82	72	93	
1627	53	48	107	
1624	48	42		
5725	141	125		
5745	120	110	43	off —
[illegible]				
5747	120	108		
5749	110	97	87	Inject it —

Not swell much —

92/1000

931	57	50	90	50	
945	42	36		92	
950	20	15			
930	123	110			
935	112	102		9	
950	108	93		37	
10	101	90		64	
1018	62	56		69	
1013	53	47		73	

9 dilut reckonings if long enough — or dummy have one bottle

11/1000

D 1.13.16

286 Emp Feke 2.5.—
4 — 56/1000

Mi Nitrati pp by ammon
Exam Nitrat — 6 - graf 4.
Conc Kott 7 drops —

(portions of Sediments)

120 fine tow
Tow-line for
Ice Boat
Ice Boat

640	80	72		
642	69	62		
647	60	53		
648	137	122	new Fe	
652	127	113	17	
657	68			
—	140	125		
710	127	112	22	
715	124	111	32	
720	122	107	42	
730	112	100	62	
737	100	90	74	
740	100	89	79	104 opaque Ice
743	93	83	87	
747	57	50	90	
750	53	46	92	
755	45	42	97	
800	43	39	100	
805	42	36	104	
810	38	34	107	
815	32	28	110	
820	22	20		
827	147	130	144	
845	127	110		13
855	112	98		22
903	103	90		40
918	90	82		67
923	82	76		73
1251	70	67		new Fe

Continue titrate if fine crystal — Thus at 820

11/1000 Dilute all 15

1103	47	41			76	
1110	63	56			48	new Fe
1115	58	43			82	
1120	46	41			86	85 in 4 seconds after ckt
1127	35	32			91	

83/1000 Bismuth. Given 11:00 in Unknown

13/16

254 Empty 2.5 filled 4 60/1000

6 pts, 4 prof

Sub Nickel treated hot with Hydrate of Magnesia forming Sub Mg & Ni Hydrate bottle very quick — No swell in KOH. Think this is the way to make the Hydrate

Manganese dioxide very compact pudding

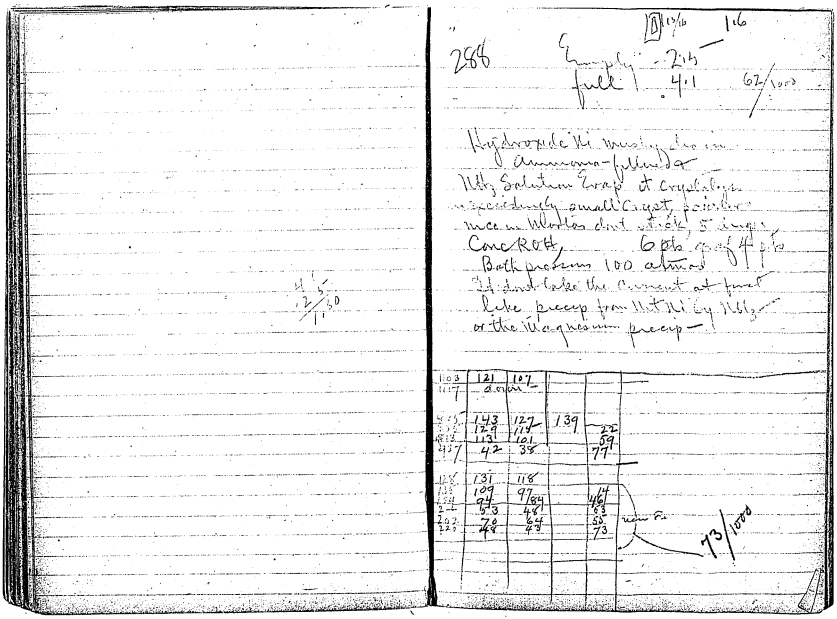
120 pounds pressure

Microscopy Conc KOH 6 drops — turns green then 2 drops to ring, white when dry —

1.55	135	120		2nd	
1/01	124	110	11		only been on 15 minutes once made —
	50				No swell at all — bottle sign
20	136	123			
1.27	120	110		2nd pkg	
1.31	113	104	9.2		
1.35	103	94			
1.37	97	119		new Fe —	Notice slight swell —
1.45	121	110	88		
1.51	117	101	92		
1.57	93	84	69		goes to 120 on quick quick
2.03	63	58	701		100 "
2.06	57	52	81		
2.10	54	50	80		
722	120	113			
730	103	943	35		
737	100	94	62		
747	72	64	66		
801	90	99	66	new Fe	
822	48	43	91		
831	39	34	98		
837	28	25			
1817	138	124		2nd pkg	
1825	123	109	17		
833	113	103	97		
840	103	92	46		
845	83	74	54		100 mostly all
850	69	61	60		

86/1000 Scattered 28

Quickly formed a little more than 4 to 6 minutes



289

Empty 4.18
full 7.16 66/1000

2nd Crop $Ni(OH)_2$ dec in HNO_3 + Evaporated, 6 pts Graph 4

Moistened KOH Conc 4 drops 100 at each

	128	130	132	
1030	136	126	121	
1035	132	118		
1030	130	116		
1035	127	114		
1040	124	111	62	
1045	120	108	72	
1050	115	102	87	
55	86	75	90	
1100	55	51	96	
1105	54	45		
1110	50	46	105	
115	49	45	109	
235	128	110	120	
302	107	96		52
333	58	43		93

290

Empty 4.9
full 8.7 83/1000

NaO_2H_2 from Nitrate by KOH
diss. in NH_4 + Evaporated
1st Crop crystals — 6 pts 4 grad

Moistened 10 drops Conc KOH, 100 atmos - both

5.46	140	125		
5.55	117	104		
6.05	113	102		38
6.10	112	100		48
6.15	122	110		
6.25	111	100		58
6.45	110	98		63
7.50	121	107		
8.00	107	95		
8.05	55	49		61
12.10	149	133		
12.15	135	122		
12.20	135	120		
12.25	127	115		34
12.30	112	100		
12.35	110	100		44
12.40	110	99		53
12.50	107	97		
12.55	105	94		72
1.05	60	54		79

Phenomenon

Last night took it off
+dried plates, then
repressed grid 125
atmos on change, great
deal stuff came out +
grid swelled frightfully —

Why ? ? ? ? ?

1245	66	53		205
1250	57	51		210
1255	53	47		213

96/1000 Annealed 9/1000 Thin sheet

7 49	143	128			
755	124	110			
800	116	101			
805	102	95			
810	105	92			
815	100	89			
820	96	85			
825	93	79			
830	89	73			
835	75	66			
840	68	60		87	new Fe 260
845	135	129			
850	127	174			
855	126	113			
900	120	107	129	126	
905	121	109			
910	115	104			
915	90	81		155	
920	65	61		161	
925	62	57		166	
930					

94/1000

291

Empty 4.9

full 8 4 79/1000

260 parts 1000 units

6 pts 4 graphite —

Nitrate Nickel precip by Magnesia hydroxide at boiling heat, Nitrate Ni in excess washed well, dries to light lint of green its a powder + absolutely Non Colloid — 22 drops Conc KOH, made very wet + pestle rocked till bulk small + graphite Covered, then dried a little + pressed —

815	147	132	140		
815	130	124			
820	135	121			
825	132	119			
830	130	117		45	
835	130	116		49	
840	127	115			
845	125	111			
850	60	65		75	
1042	137	122			
1050	120	105		117	
1055	117	103		127	
11 —	114	101	108	361	
1105	114	100		46	
1110	107	94		82	
1235	103	92	100	109	
1240	102	91		108	
1245	101	90	98	117	
1250	98	87		133	
12 —	97	85	94	142	
1205	95	84		149	
1210	88	78	88	168	
1220	84	74	84	192	new Fe
253	64	58		192	
248	62	56		200	

Notice the annealed (all) Fe at 850 + down is about the same but after a down to 840 it is 2 pts higher. 291 has annealed more or only known when running except for 845!

910	102	91			45
915	100	90			23
920	99	88			65
925	97	87			70
930	95	86			78
935	93	84			86
10	87	73			122
1001	130	116			
1005	121	109			133
1010	116	104			142
1015	107	94	124		162
1021	82	75			
1027	73	66		120 7m	171
1032	70	62		120 5m	174
1035	64	57			180
1040	60	54		100 5m	185
1015	273	119			
1020	244	107			
1025	197	86			
1030	191	84			
1035	185	81			
1040	180	79			
1045	170	75			
1050	156	69			
1055	140	62			
11	124	55			
1105	105	46			
1110	85	37			
1115	82	36			
1120	80	35			
1130	72	32			192

new Fe

113/1000 Scale 39/1000

3rd plug Eq 74

147

Empty 4:19
filled 8:1

79/1000

Same as 291 Except wet with Water instead KOH, but worked in weather the same —

245 tests Fe

854	137	120		
854	130	113		4
910	115	102		
915	114	101		
920	113	101		
925	112	100		44
930	110	98		
935	109	97		
940	108	97		
945	106	96		81
950	105	94		
955	95	84		98
1000				
845	114	112		
850	113	103		
	111	100		10
	104	94		28
905	103	93		36

Exports for Patent Eqv.

Zinc – KOH – N_2O_3 by Hypochlorite gives depletion then goes right down

Zinc KOH, N_2O_3 from igniting Nitrate at 600 Tube gave 120 then goes right down to .32 which is about dif between Zinc + D_2O H_2O –

293 Empty 4.175 Big Reg 2.50

CHANGE full 7.55 79/1000 224 Tube

Same as 291 Except Water used + graphite + H_2O mixed on glass plate + rolled with bored air roller till all showed Graphite + Rock flake Coated with Oxide – Then pressed the plate to 100 atmos then put it in pocket + thoroughly dried it then put pocket in Rubber + pressed it to 100 atmos – When I put it in Cell it gassed but soon stopped, when Salt Sol'n run in – Tube 224

805	134	120		
820	104	96	30	
830	103	94	48	
840	77	66	63	
241	17			
103	140	124		
111	114	102	16	
125	111	98	48	
130	110	97	52	
141	104	94	72	
153	104	90	96	
205	95	83	112	
209	119	106	118	
215	97	90	125	
229	91	92	136	

Doubled some.

104 on open ckt Then when shows low internal into 291 same as 128 open.

66 118 open ckt

830	152	140	142	
835	130	116	126	35
850	108	96	104	65
900	99	87		82
910	61	58		

Start of Contact
beginning Increase on
Middle Anode
Jump Volts up
Jump 20 points
Apparent Limit

294 Empty 4:15

CHANGE Full 7:5 57/1000

MnO Hydrate by Magnesia from Mn Nitrate
6 pts grad 4 pts
Powdered Metallic Nickel made by
Electrolysis in Ammonia
Solution, 1.5 pts

Monsel met Cone KOH + Rolled on
Glass —

930	135	121	136		
935	120	109			
940	112	100			
945	110	99		29	
950	110	96		38	
955	109	97			
1000	108	96			
1005	107	95		65	
1010	106	94		74	
1015	105	93			
1020	104	92		91	
1025	102	90		100	
1030	85	85	120	104	
1035	63	55			
1036	75	65		115	
1040	70	64		120	
1045	67	60		126	
1050	65	58			
1055	63	55		134	
1100	57	52		142	
1105	47	42	60	146	
1110	42	37		150	

96/100 S/1 Apparent to the eye any one time Metric Beam drop of Water

Thin thick Heat run + water drop part

S/1

Quincy 13/16

295 Empty 2.95
full 3.17

160 packs

MO hydrate Magnesia process
without graphite internally but coated with it
on outside of plate & then put in pockets
100 at both
Moistened Water —

1147	123	110		
1150	110	98	108	
4	33			
1152	120	108		
1155	110	104		
1200	65	60		
1205	50			

ng

ng

Thes iron & Clays been creamy seems to go bad - test it

296 CHANGE

Empty 417
full 8165 - 72/1000

Norway iron scale ground fine - 6 parts graphite (4)

Alcohol Cone KOH, Rolled on glass

2.27.9 scale

1124	127	112			2nd peq
1130	121	108			
1135	120	107			
1140	119	106		32	
1145	118	105			
1150	117	104			
1151	117	103			
1155	116	104			
1200	65	40			
1205	114	101			
1210	110	99			
1215	107	96			
1220	97	86			
1225	95	20		113	
1230	95	24			
1235	93	83			
1240	93	82			
1245	92	82			
1250	92	82		144	
1255	90	81			
1—	109	94	112		new pH
1105	108	93		175	
110	88	85			
115	90	80			
120	77	68			changed to bath & not again
125	77	68		217	
130	75	70			new pH
135	1054	66		224	
140	72	66		231	

quit for night

205

297 Empty 2.7
full 4.75 - 55/1000

Nickel reduced by Hydrogen
+heat, then boiled in Conc KOH
6 / graphite 4

Conc KOH immersed 100 atmos

110	100	100		
112				

100 at 101

2.96 Empty 4.165

full 7.16 61/100.

N.O.T. by Minguera process 6
graphite slug flakes nickel plated 4

Moulded Hot, Rolled, The flakes are too
Large must be our regular size
nickel plated
100 atmos.

7.17	131	116	123	
7.26	114	103		
9.30	110	97		
9 min				

graphite and Zinc
heard it not on table, 3 hours
out of hydrogen

7.58	147	129	
8.05	136	116	
8.10	95	84	
8.15	70	61	
8.30	55	49	
8.35	48	43	
8.30	40	37	
7.35	36	39	
6.40	33	20	
7.45	30	23	

299 Empty full 4/8/75

63/1000

30% factor

Mix Magnesium process 7 pts
Nickel powder reduced by
Hydrogen from anhydrous NiO_2

Mount R 04 15 Drops ~~Ethanol~~ only
ground — powder totally inadequate
block too small to give any
result — Unmade —

Condemned Came out grid at first —

1004 1023	122 50	108		off —
1113	132	118		
1150	124	108		
1155	107			then dropped to 60 at once — left contact grease

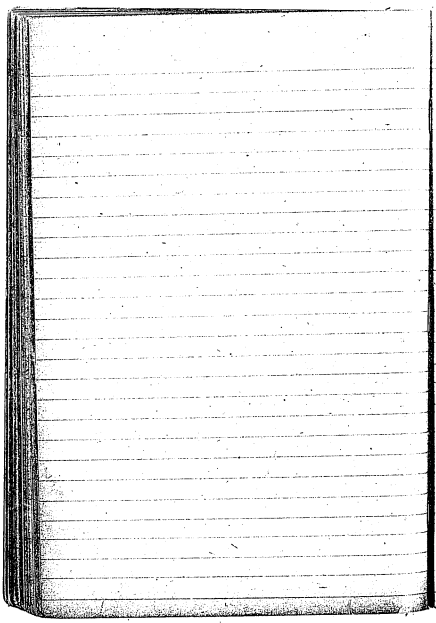
500 Empty = 4.65
Filled = 8.15 8/1000

Ni made in big cloth filter 6 gms.
Plumbago 4 "
Moistened KOH Conc.
100 atm.
Pocket thus [sketch]

Destroyed

925	143	127	136	
930	135	119		
935	126	112		
940	121	107		
945	113	100		
950	111	98		
955	110	97		
10 —	107	96		
1005	105	93		
1010	99	87		
1015	94	85		
1020	85	80		→ Put in new gauge — 8 mm off.
1025	65	58		
1030	57	51		
1035	49	44		
				117

The pocket pulled apart twice under another ⇒



301

Eng'g. 4.6.

full 7.45 60/100

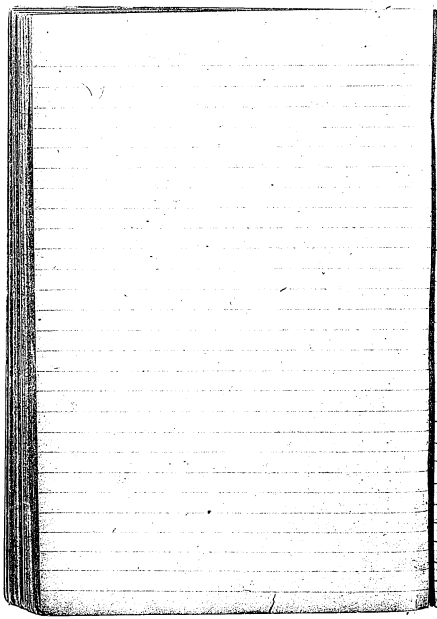
Ni.O made in 6 gallon: 6 grafs 4 @ 2.85

Mont Conc KOH not rolled 228/acre

This is Concave and the plate was 19" not rolled
moulded Concave and then put in pockets
of the whale pressed Concaves

1140	140	125	134	
1150	125	110		
1155	109	96		
1200	106	94		
1205	88	76		48

2 1/2 ring - 4 troughs
in center Concaved
4 after charge
1130 rolled out night
Imps generally
Grid -
Ghiel Mills Co
out 11030



302 CHANGE Empty 4.6
full 7.85 76/1000

McO made in big clock fillers 6
grog 4 200 feet

Mount Roff Cine 100 almos not

Case hardened packet 3 seconds

1212	145	124	
1215	139	123	
1220	134	120	18
1225	138	118	29
1230	130	117	
1235	130	116	52
1240	127	114	62
1245	125	111	73
1250	117	104	89
1253	57	52	
527	147	132	
530	134	120	21
535	124	112	53
540	104	97	82
545	107	96	109
550	106	94	118
555	98	93	156
402	143	129	
407	138	124	
412	130	120	165
417	127	121	165
423	120	92	133
428	99	87	163
436	78	69	173
604	142	348	760
615	72	66	
620	64	58	207
627	57	52	225
635	44	40	227

This tells the tale
Use curve to right
Track wear - notice the
Tread Under + Thin
The smaller drops
The pocket prints the
The pocket + prints the
Elastic - if closed
the change of
faith

never 113/1000

off 37/1000

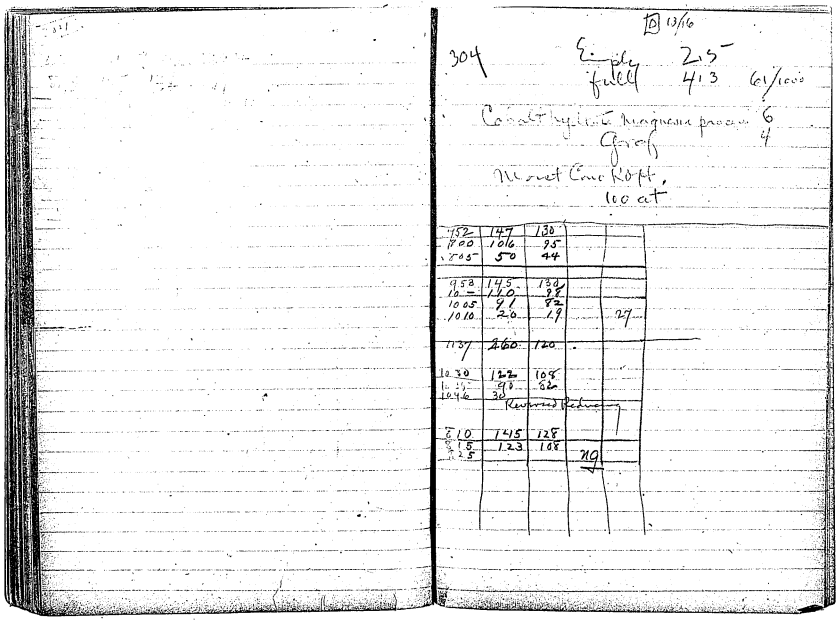
303 Empty 4.8
full 7.6 81/1000

MD – by cloth fitter/craft room staff (upstairs)
& pts Grade 4
Monster → Rott Cave

pressed only on edge of pocket,

224 factor

13.4	142	128		28	
9.5	132	117	127	44	off –
5.6	20				
2.7	145	131	140		
1.0	140	124			
.15	135	122			
0.20	133	120			
0.25	130	118			
0.30	128	116		51	
0.35	127	115		63	
0.40	125	113		74	
0.45	123	111		83	
0.50	119	106		93	
0.55	117	99		102	
0.60	105	96		111	
0.67	132	121		111	new Fe
0.85	113	101		114	
9.10	69	62		137	
9.15	64	58		139	
9.20	61	55		137	
9.25	56	52		140	
9.30	53	47		141	
9.35	47	45		139	
9.40	44	39			
9.45	35	32			
9.50	20	19			



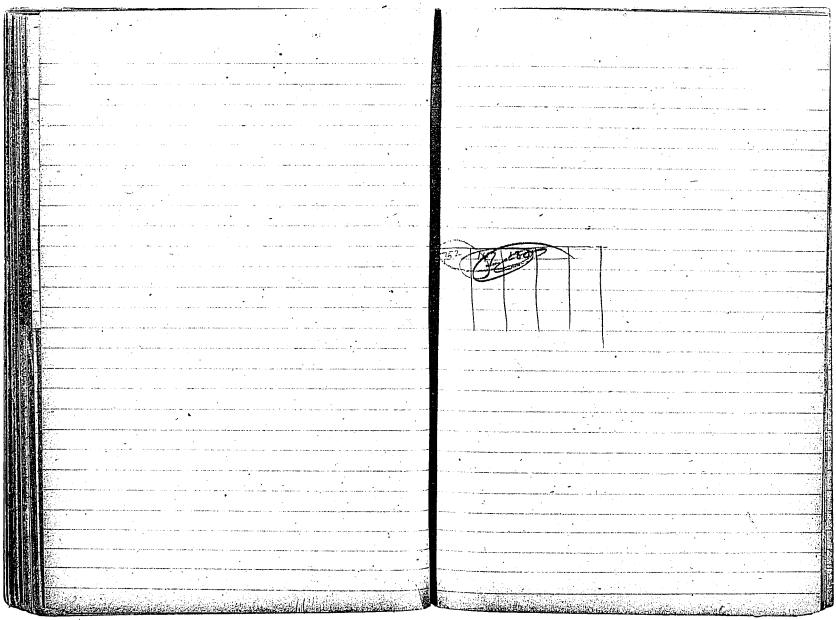
10/13/10

304

Empty 2.5
full 4.3 61/1000

Conc by incr magnesium process 6
Cyrog 4
Nearest Conc Rept,
100 at

952	147	130			
1000	106	95			
1005	50	44			
958	145	130			
10 =	120	98			
1005	41	82			
1010	20	19			27
1137	~~260~~	120			
10 30	122	108			
1 :	98	82			
1046	30				
	Removed Pedestal				
5 10	145	128			
15	123	108			
25			NG		



305

1141	135	
1142	124	10
1152	122	
1205	115	70
1215	105	
1220	104	67
1230	101	78
1240	100	95
1250	99	112
100	98	128
110	98	143
115	59	149
120	108	1521 Math

87/1008

305 Empty 4.9

filled 7.9 72/1008

N.O foam Nitrate by Magnesia process
6 pts – 4 1/2 graf –

Moistened Cracker, Rolled

Opening steel, burrs off – flattened around edges only – 100 at.

2 Applications

1048	123	111		
1058	113	102		
1100	110	98	42	
1121	105	95	62	
1125	102	91	84	
1130	99	87	94	
1135	89	78	206	
1200	134	105		New Foam
1208	129	115	133	
1210	113	102	148	
1223	85	80	166	
1233	70	45	173	
1300	67	42	185	
110	138	34	201	
115				

306

9'12	143	
915	138	7
920	134	
925	123	29
935	111	
940	110	58
945	101	
950	109	85
1005	105	103
1015	104	
1025	100	137
1035	98	
1040	98	162
1050	50	174
1055	47	
1100	45	182
11.05	44	
11.10	43	189
1115	41	
1125	40	
1135	36	205 Mod.

306 Empty 4.7
full 7 55 — 70/1000

MnO from Nitrate Magnesia prisms,
6 pts 4 grafs —

Rolled-Moistened KOH —

Spring steel. Corrugated across
100 alums

Burro left on

857	271	120		3rd peq
876	242	106	56	
903	106		93	
114	122	110		2nd peq
120	117	104		
123	118	106	86	
135	109	97		
151	108	95	65	
200	106	94		
215	103	91	94	
220	100	91		
230	78	66		New fa
240	65	57	131	
250	60	53		off
300	51	45	150	

610	140	124	
620	130	114	16
630	107	98	40
635	108	96	45
715	130	118	65
735	109	96	
735	79	57	
749	50	44	97
805	114	99	102 Mah
127	130	114	
134	128	104	19
145	116	101	37
153	112	100	86
200	112	99	
211	110	98	86
220	110	96	116
230	108	95	
240	104	92	133
250	50	43	171
300	45	40	
308	43	39	149 Maufer
310	60	53	
315	55	48	155
320	50	45	140
334	46	40	168
337	40	35	173
342	36	31	176 Matt

off

307 Empty 4.9

full 7.4 67/1000

N.10 from Natural Magnesia proc 6 pts
Graftite 4 pts

Rolled - Annealed Roll Cone
100 alumos
Spring steel. Corrugated across grain
Burrs off

906	137	123	
915	114	106	
925	118	102	34
931	118	99	56
946	108	97	
1012	48	42	
147	148		
154	129		
200	128		30
210	123		
215	120		
230	118		71
238	105		
240	103		108
250	100		
300	50		124
310	47		
330	43		140
336	41		
338	40		151
343	34		
355	33		162 Mah

335	147	130	
345	124	108	
355	117	102	44
405	112	99	
415	110	97	
425	109	96	99
435	108	95	
445	106	94	131
455	104	92	
505	101	90	162
515	100	89	175
520	99	88	
530	97	85	186
540	95	84	
550	93	82	
600	91	80	206
401	143	124	
406	129	110	
410	121	105	187
420	117	103	137
433	112	99	152
438	110	98	80
505	108	94	
510	105	93	100
515	104	92	108
520	102	90	
530	99	87	133
535	94	84	
545	87	76	156
555	45	36	167
600	38	33	170
601	60	53	
611	52	48	
617	51	48	
621	50	46	188
630	50	44	196
640	48	42	

I will have Leco better Volt as a function of Fe Loss

306 Empty 5.16
full 8.25" 66/1000

N.O. from Nitrate Mag process 6–
graphite 4

212/1000

Rolled–Worst Rotline 100 at
Corrugated across 4/1000 sheet
Nickel

	dia	No Value mark
911	135	
913	134	
915	132	
918	130	
921	129	
925	128	
932	126	
938	124	
944	121	
950	110	82
957	64	103
1000	59	
1006	56	
1011	53	
1015	51	
1020	45	
1025	30	119

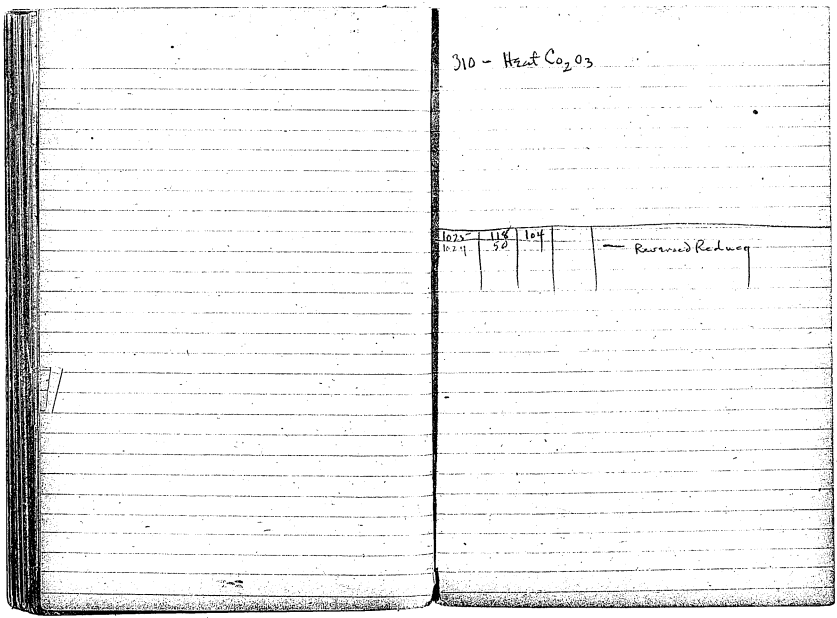
1130	135	
1150	120	
1200	108	41
450	96	
500	91	73
510	101	
520	101	105
530	76	
540	58	130
550	45	
600	45	146
612	46	134
621	39	160
627	36	169 Mark
1210	123	
1215	110	9
1225	98	27
1238	99	47
1245	92	58
1252	92	64
1259	91	80
107	91	92
115	90	104
121	90	122
136	90	135
145	86	148
158	43	156
209	42	
218	41	169
225	40	172
236	60	
238	52	183
243	50	
249	45	
256	40	196
281	32	199 Mark

309 Empty 5.6
full 8.6 81/1000

NiO from Nitrate, Mag Process, 6 graftite 4

Rolled-Cone KOH - 4/1000 Nickel clamped around edges not pressed in Center

1029	138		
1032	127		
1039	119		
1045	117	36	
1051	115		
1100	112	64	
1110	110	83	
1115	109		
1120	108		
1125	106	100	
1130	105		
1142	101		
1145	104	134	
1155	98		
1205	94	185	
1210	93	169	
		off Mark	
1225	77		
1239	66		
1235	53	170	
1240	59		
1255	30	196	off


310 - Heat Co_2O_3
1025
1027
118
50
104
Reversed Reduag

311

	Mod Conv	
9.35	124	
9.45	112	13
955	111	
1005	110	89
1110	109	
1120	108	87
1130	105	
1140	104	121
1152	100	140
1140	95	
1110	90	172
1115	46	178
1125	91	
11.33	40	197 Mod

311 Empty 4.79
full 7.3 73/1000

NaO [illegible] + Magnesium by Epoxide
Epoxide Ni Peroxide, washed & dried
then boiled with warm very
dilute nitric acid, washed &
dried — 6 pts graph

Monsten KOH Core — Rolled
Corrugated Cross wise — steel sheet
100 at —

850	132	116	Mod	Phenomenon —
855	127	110		The grid corrug is
905	120	109	31	only one where stiff
910	118	103		against the holes
915	110	102	51	must be mixture of stiff
920	115	101		changed by action
925	113	100	70	of the acid —
935	112	98		
940	110	98	98	
945	110	97		
955	118	96	125	
1005	107	93		
1015	100	87	155	
1025	95	410	167	

1207	135	119	Middle
1225	125	116	39
1238	100	86	43
1243	68	60	70
1248	60	53	75
1253	56	50	80
1258	57	46	84
103	48	42	
108	46	41	92
113	45	39	96
120	42	37	

Deduc fronted out

312 Empty 4.65 fuel 7.4 69/1000

Same Boy [illegible] fronted

No Hydroxide from Nitrate Ni Cy Magnesia process treated with Hypochlorite 5% — 6 pts. good 4 — Rolled—moist Conc 100 ft

Sheet Steel Corrugated Cross section 100 atmos —

220 joints

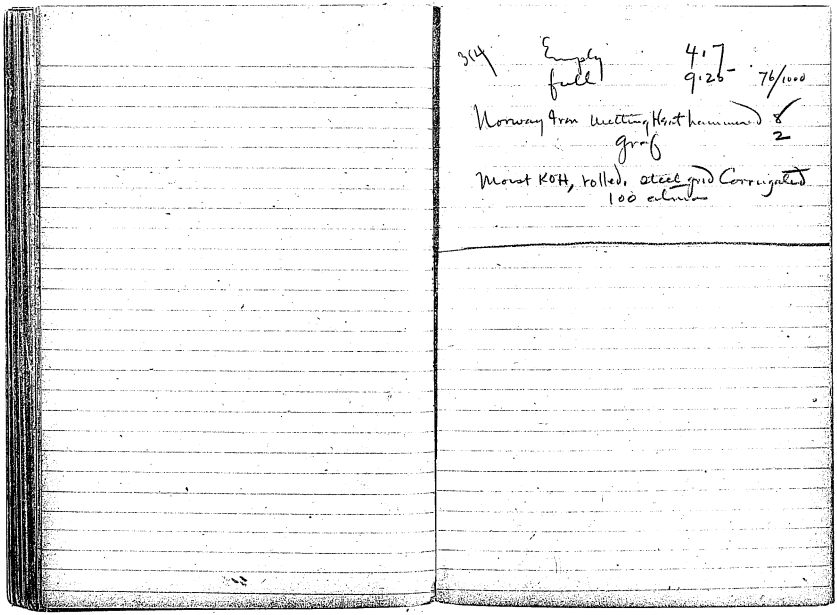
1027	121	106	
1030	113	99	6
1035	102	91	
1040	92	81	23
1050	72	63	
1055	59	46	39
1103	38	32	45
1119	29	23	50
1114	135	118	
1120	130	114	64
1125	139	113	74
1132	127	102	84
1140	124	100	
1145	104	93	130
1200	104	93	146
1209	102	90	
1220	107	89	180
1225	106	88	198
1231	97	80	204
1237	82	68	207

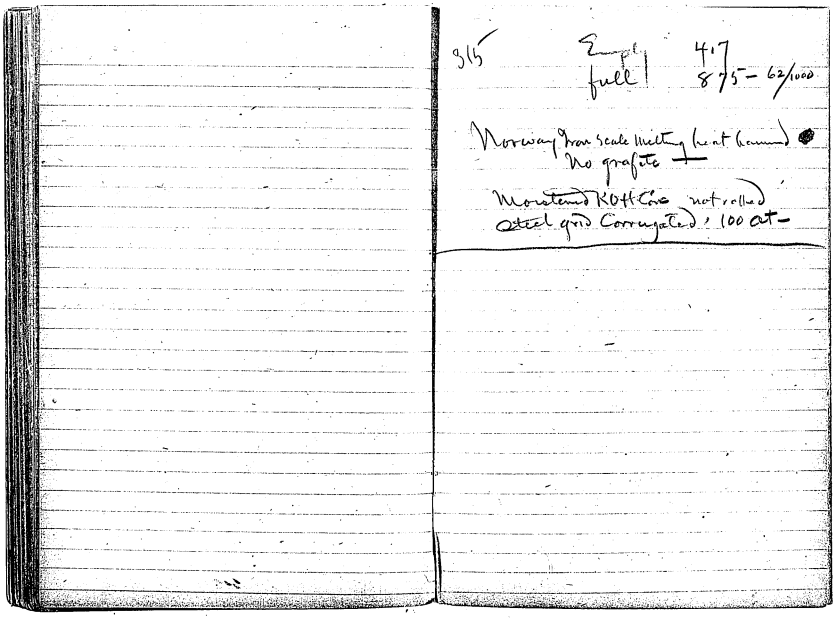
Best yet

313 Empty. 4.65
full 9 73/1003

Norway Iron at melting heat
hammered
proof B 2

Steel grid corrug'd Crossover
not rolled — Req way
100 chairs


9/14
Empty
full
4.17
9.26
76/1000
Norway from melting Krist hammered
grog
8
2
Mount KOH, rolled, steel grid Corrugated
100 calcined


915
Empt
full
4:7
875 – 62/1000
Norway Iron scale melting (heat hammer)
No graphite
Monsteras Rotticino not rolled
steel grid Corrugated: 100 at-

EH, 13/16

316 Empty 2.15
full 3.95

Wash water from prep. Sus Cobalt by Magnesia Hydrate, Contained last Cobalt, prep. it by KOH, added Hypochlorite K, + washed dried — very black —
100 at, (

Time	Amps	Volts	Mah.
7.27	120	112	
6.38	118	103	
6.58	102	90	15
7.40	90	78	31
8.15	78	68	
8.50	30	25	41 Mah.

317

Expt 4.17

full 8.6

This supply & main line to be lowered in R.O.H.

Reg by hot Nit Ni Magnesia process

6 – Nickel plating graphite

30 on 50 – 4 pts –

Monel R.O.H. Cone Rolled

Steel grid Corrugated 100 atmos

	Milky	Water	
	142	124	
1.20	118	103	21
1.30	115	107	
9.40	113	103	60
9.50	113	98	
10.00	111	97	97
10.10	110	96	
10.20	109	95	134
10.30	108	94	
10.40	104	91	169
10.52	85	74	185
10.55	50	44	
1.100	50	43	
1.105	49	43	196
1.100	49	42	
1.15	49	43	212
1.25	47	40	
1130	45	39	216 Mak.
			Now Ge
1135	68	60	
1143	63	55	225
1150	60	53	230
1155	56	48	
1200	50	43	238

318 Empty 4.95 87/1000.
fields 8.

Big Lot nut ni manganese process
6 pots Nickelplated grafoil 4 pts
Mounted Kraft Cans filled
Steel grid Corrugated 100 cotmar

719	140	
720	125	13
720	25	26 off

3/9 Empty 4.75
full 8.14 15/100

Bag lot Mat'l by magnesia process
5 parts
5 1/2 graphite

Monsanto RFA Core Rolled
100 micro steel Cross Corrugated

315	130		
320	100	9	
330	95	25	
340	73	29	
345	52	45	
350	40	48	
360	104		Micro
365	94	55	
1102	89	65	
410	77	77	
420	48	91	
434	45	103	
448	118		micro
505	50	123	
510	50		
515	50	132	
520	50		
530	48	144	
540	38	151	Mach.